

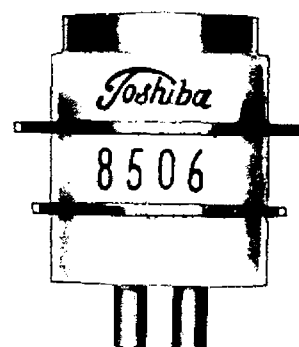
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TOSHIBA ELECTRON TUBE

8506

METAL-CERAMIC TRIODE

The Toshiba 8506 is a triode of ceramic and metal planar construction designed for use as a radio-frequency power amplifier in the uhf range.



GENERAL DATA

ELECTRICAL:

Cathode: Coated Unipotential

Heater voltage 6.3±5% V

Heater current 0.4 A

Direct interelectrode capacitances*

Grid to Plate 2.5 PF

Grid to Cathode 4.8 PF

Plate to Cathode 0.025 PF

MECHANICAL:

Operating Position Any

See Outline Drawing for dimensions and electrical connections.

MAXIMUM RATINGS DESIGN-MAXIMUM VALUES

Plate Voltage 300 V

Positive DC Grid Voltage 0 V

Negative DC Grid Voltage 50 V

Peak Negative Grid Voltage 50 V

Plate Dissipation 5.0 W

DC Grid Current 2.0 mA

DC Cathode Current 40 mA

Heater-Cathode Voltage

Heater Positive; Total DC and Peak 50 V

DC 50 V

Heater Negative; Total DC and Peak 50 V

DC 50 V

Grid Circuit Resistance 0.25 MΩ

Envelope Temperature (at hottest point) 250 °C

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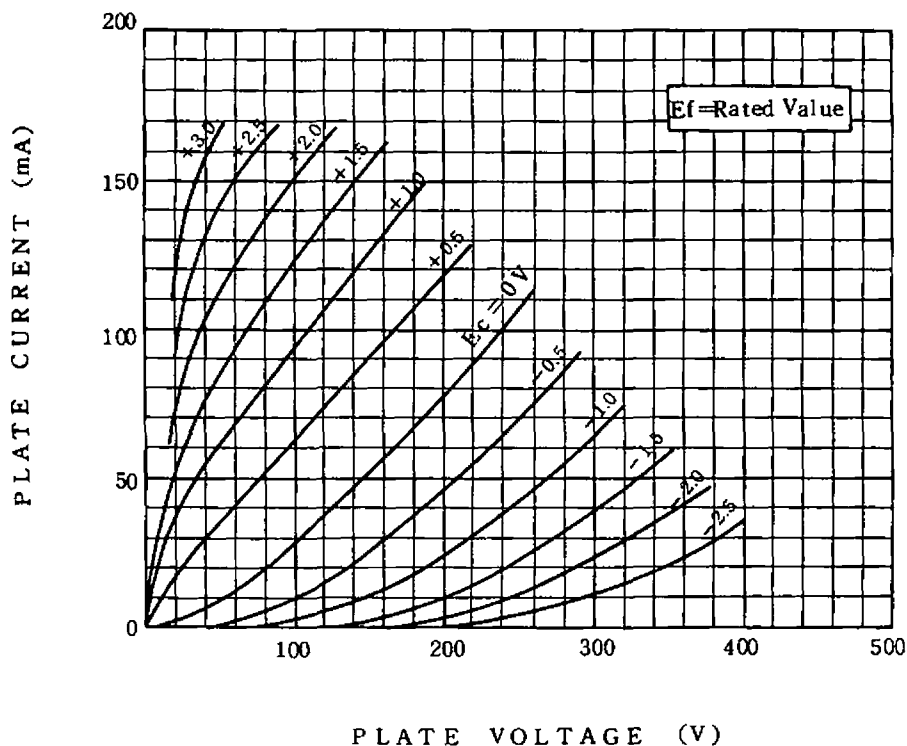
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AVERAGE CHARACTERISTICS

Plate Voltage	200	V
Cathode Resistor	40	Ω
Amplification Factor	110	
Transconductance	29000	μV
Plate Current	25	mA
Grid Voltage	-3.5	V
for $I_b = 50 \mu A$		

- * : Measured using a grounding adaptor that provides shielding between external terminals of tube.
- ** : For application where long life is a primary consideration it is recommended that the envelope temperature be maintained below 175 °C.

8 5 0 6 AVERAGE PLATE CHARACTERISTICS



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8506 DIMENSIONAL OUTLINE

